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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,769	01/03/2002	Ryan J. Welch	AFD 460	1191
26902	7590 09/14/2004		EXAMINER	
DEPARTME	ENT OF THE AIR FO	TRINH, MINH N		
AFMC LO/JA	ΛZ			D 4 DED 44 D 4 DED
2240 B ST., R	kM. 100	ART UNIT	PAPER NUMBER	
WRIGHT-PA	TTERSON AFB, OH	45433-7109	3729	

DATE MAILED: 09/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)	$\mathcal{M}$			
		10/034,769	WELCH ET AL.	/· 			
		Examiner	Art Unit				
		Minh Trinh	3729				
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet w	vith the correspondence addres	SS			
THE I - External after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR IT MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 of SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). In no event, however, may a tion.  s, a reply within the statutory minimum of this openiod will apply and will expire SIX (6) MO or statute, cause the application to become A	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this commu.  BANDONED (35 U.S.C. § 133).	inication.			
Status							
1)⊠	Responsive to communication(s) filed on	n <u>22 June 2004</u> .					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)	This action is non-final.					
3)[	Since this application is in condition for a	allowance except for formal ma	tters, prosecution as to the me	erits is			
	closed in accordance with the practice un	nder <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.				
Dispositi	on of Claims						
4)⊠	Claim(s) <u>9-20</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>1-8</u> is/are withdrawn from consideration.						
5)[	Claim(s) is/are allowed.						
6)[	Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)⊠	Claim(s) 9-20 are subject to restriction as	nd/or election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Ex	aminer.					
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)[	The oath or declaration is objected to by	the Examiner. Note the attache	ed Office Action or form PTO-1	152.			
Priority ι	under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for fo  ☐ All b)☐ Some * c)☐ None of:	oreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
-/1	1. Certified copies of the priority docu	uments have been received.					
	2. Certified copies of the priority docu		Application No				
	3. Copies of the certified copies of th			ge			
	application from the International E	Bureau (PCT Rule 17.2(a)).					
* 5	See the attached detailed Office action for	a list of the certified copies no	t received.				
<b>A</b>	44-)						
Attachmen		4) Interview	Summany (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date							
3) Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/ or No(s)/Mail Date		Informal Patent Application (PTO-152	2)			

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## **DETAILED ACTION**

## Election/Restrictions

1. Applicant's election process claims 9-20 filed on 6/22/04 is acknowledged. Upon further review of elected claims 9-20, applicants are required to elect one of the following inventions.

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 9-13, drawn to method of mounting substrate, classified in class
     subclass 830.
  - II. Claims 14-20, drawn to computer aided associated with the process of making substrate, classified in class 716, subclass 10.

The inventions are distinct, each from the other because of the following reasons: Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention II clearly has separate utility such as "defining in computer code an array of milling machine cutter paths . . .upper surface", etc. (see claim 14, lines 6-8). See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## **Conclusion**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Trinh whose telephone number is (703) 305-2887. The examiner can normally be reached on Monday -Thursday 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (703) 308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner Group 3729

9/9/04 mt